



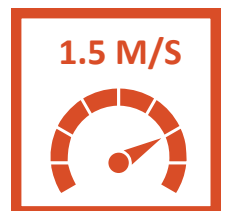
AMTR Freeze 2

High-speed double-curtain door designed for freezer environments with extreme temperature differences and maximum thermal insulation.

- Designed for extreme freezer applications (-35°C to +10°C)
- Double curtain system with enhanced thermal insulation ($U \approx 1.4 \text{ W/m}^2\text{K}$)
- Ideal for environments with high temperature differences (up to 40°C delta)
- Integrated heating system preventing ice and condensation
- Self-repairing curtain system minimizing downtime
- Opening speed up to 1.5 m/s
- Controlled humidity operation for optimal performance
- Energy-efficient solution for high-performance cold rooms
- Advanced safety system with dual IP67 multibeam barrier



THERMAL INSULATION



OPENING SPEED UP TO 1.5 M/S



DOUBLE CURTAIN

General information

AMTR Freeze 2 is a high-speed self-repairing roll-up door with a double curtain system, designed for freezer environments where extreme temperature differences and high thermal performance are critical. The door is ideal for applications requiring reliable separation between negative and positive temperature zones.

The **double PVC curtain construction with an internal air layer** provides enhanced thermal insulation with a U-value of approximately **1.4 W/m²K**. This significantly reduces heat transfer and supports stable temperature control in demanding cold storage and logistics operations. The system is suitable for environments with **temperature differences of up to 40°C** and requires controlled humidity for optimal performance.

To **prevent ice formation and condensation**, the door is equipped with an integrated **heating system including heated guides, motor heating and control cabinet heating**. The self-repairing curtain automatically reinserts into the side guides after impact, ensuring continuous operation and reduced maintenance.

The door is powered by a 3-phase self-braking motor (IP55) and controlled via a logic board system with inverter or contactor configuration. With **opening speeds up to 1.5 m/s**, AMTR Freeze 2 ensures efficient material flow.

With maximum dimensions of 4500 × 5600 mm and **wind resistance up to Class 3** (EN 12424), the door offers reliable performance in industrial applications. A safety system including **dual IP67 multibeam barrier and double anti-jamming sensors ensures safe operation**.



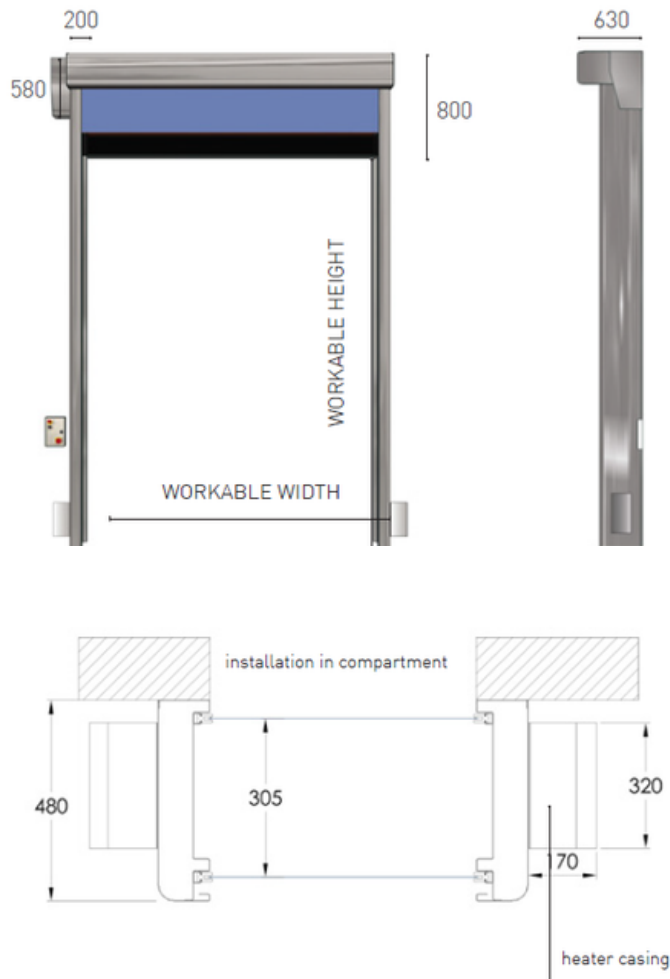
Standard Equipment

- Double PVC curtain system (with internal air layer)
- Self-repairing curtain system
- Heating system (infra-curtain heater, frame and motor heating cables)
- Timer-controlled heating system
- Logic control system (400V, inverter or contactor depending on size)
- Encoder positioning system
- 3-phase self-braking motor (IP55)
- Galvanised steel frame and roller
- Powder-coated control cabinet
- Dual IP67 multibeam safety barrier
- Double anti-jamming sensor
- Flashing light
- Manual emergency opening (rod)

Optional Equipment

- Stainless steel construction (AISI 304 / 316)
- Stainless steel roller (AISI 304 / 316)
- Stainless steel control cabinet
- Plastic control cabinet IP66
- Microwave radar activation
- UPS emergency opening system (with limitations)
- FDA-approved double curtain
- Anti-static double curtain (1700 g/m²)
- Vision panels (one row, 850 × 300 mm)
- Heating element for control box
- Custom logos and prints

Mounting space



TECHNICAL DATA			
Application		inside	on request, application assessments in different areas
Maximum dimensions*		4500 L x 5600 H mm	clear opening width & height
Operating speed		opening closing	up to 1.5 m/sec 0.8 m/sec, adjustable
Wind resistance	EN 12424	4500 L x 5600 H mm	class 3
Range temperature		- 35 °C to + 10 °C	Maximum pos/neg temperature delta 40°C Controlled humidity required
Frame	EN 12604	galvanised steel stainless steel AISI 304 or 316 powder coated	standard optional optional
Roller		galvanised steel stainless steel AISI 304	standard optional
Control cabinet		metal, powder coated IP66 stainless steel AISI 304-316 plastic, IP66	standard optional optional
Motor position		Lateral RH/LH	standard
Curtain fabric		Double polyvinyl chloride (PVC) curtain with inner tube FDA (double) antistatic (double)	standard 900 g/m2 thickness 0,9 mm U 1,4W/m2K optionally approved for food use U 1,4W/m2K optional 1700 g/m2 thickness 2 mm U 1,39W/m2K
Windows		absent one row, with porthole each 850 L x 300 H mm	standard optional
Emergency opening		Manual release rod UPS	standard optional
Control system		logic board, with contactors or inverter, depending on door dimensions	standard/three-phase 400V
Positioning system		Absolute encoder Mechanical limit switches	standard - inverter based standard - contactor based
Drive unit	EN 12604	Three-phase self-braking motor IP55	standard
Heating system		Double infra-curtain heater Timer Heating cable for frame and motor Heating element for control box	standard standard standard optional
Safety devices	EN 12453	Dual Multibeam barrier IP67 Double anti-jamming sensor Flashing light Microwave radar	standard standard standard optional

*upon request, possibility of other dimensions

Curtain standard colours

